



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/858,315 | 05/15/2001 | Edward M. Housel | H79879/DPS | 3099 |

1333 7590 02/22/2006

BETH READ
PATENT LEGAL STAFF
EASTMAN KODAK COMPANY
343 STATE STREET
ROCHESTER, NY 14650-2201

EXAMINER

THOMPSON, JAMES A

ART UNIT

PAPER NUMBER

2624

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/858,315

Applicant(s)

HOUSEL ET AL.

Examiner

James A. Thompson

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 July 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05 December 2005 has been entered.

Response to Arguments

2. Applicant's arguments filed 05 December 2005 have been fully considered but they are not persuasive.

Applicant argues that Livingston (US Patent 6,621,590 B1) does not disclose a jam identifier, and thus Livingston in view of Lobiondo (US Patent 5,287,194) does not teach each and every limitation of independent claims 1 and 15.

Examiner responds that, firstly, the jam identifier is not recited in independent claims 1 and 15. The jam identifier is recited in dependent claims 14 and 28. Applicant is respectfully reminded that, although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Furthermore, additional prior art has been discovered which fully teaches the amended claims 1, 14, 15 and 28. Additionally, the newly added claims 29-31 have been fully considered by Examiner. The corresponding prior art rejections are given in detail below.

Art Unit: 2625

Applicant argues that Livingston and Mastie (US Patent 6,583,890 B1) or Farrell (US Patent 5,179,410) fail to disclose or suggest specifying a balanced media exit pattern that distributes media for the print job in a generally equal manner between different output destinations, as claimed in independent claims 1 and 15.

Examiner responds that independent claims 1 and 15 were rejected based on Livingston and Lobiondo. It is Lobiondo that teaches specifying a balanced media exit pattern that distributes media for the print job in a generally equal manner between different output destinations, as recited in independent claims 1 and 15. Page 4, lines 3-7 of the previous office action, dated 13 July 2005 and mailed 26 July 2005, demonstrates how Lobiondo teaches said specifying.

Applicant argues that there is no motivation to combine the references.

Examiner responds that proper motivation to combine has clearly been given in said previous office action, such as on page 4, lines 14-24 of said previous office action, and Applicant has not attempted to refute any of the specific motivations provided therein.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Art Unit: 2625

Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-4, 6-10, 12-13, 15-19, 21-24 and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,621,590 B1) in view of Lobiondo (US Patent 5,287,194).

Regarding claims 1 and 15: Livingston discloses a printing system (figure 1 of Livingston) comprising at least one input source (figure 3a(64("Paper Source")) of Livingston) for storing a medium prior to printing (column 5, lines 20-22 of Livingston); and at least two output destinations (figure 3a(64("Output Bin")) of Livingston) for holding or processing the medium after printing (column 5, lines 19-23 of Livingston). One of a plurality of paper sources (media) and one of a plurality of output bins (destinations) can be selected for a page of the overall print job (column 5, lines 19-26 of Livingston). Therefore, at least one input source for storing a medium and at least two output destinations for holding or processing the medium after printing are inherently a part of the overall printing system. Otherwise, there is no source of paper media to print upon and no output destinations to send the print medium to be held or processed.

Livingston further discloses a user interface (figure 1(28) of Livingston) to support a user's entry of a command (column 3, lines 20-23 of Livingston) comprising at least a media identifier (paper source) and an output destination control (output bin) (column 5, lines 17-23 of Livingston) to selectively incorporate the command if respective values of symbols meet a defined criteria (column 5, lines 17-20 and lines 22-26 of Livingston), the command supporting selection of one of the

Art Unit: 2625

output destinations (column 5, lines 17-23 of Livingston) for any sheet of a print job (column 5, lines 13-15 and lines 17-23 of Livingston) in said at least one input source prior to the printing (column 3, lines 51-55 of Livingston). A selected command (column 5, lines 17-20 of Livingston) can only be incorporated if the output printer supports the selected command (column 5, lines 22-26 of Livingston). Furthermore, some entries can only be made conditionally based on other command entries. For example, the text of a watermark cannot be entered without first selecting the option to print a watermark (figure 3A(82,88) and column 5, lines 63-66 of Livingston).

Livingston further discloses a central processing unit (figure 1(14) of Livingston) configured to utilize the media identifier (figure 3(84) and column 5, lines 13-15 of Livingston), the output destination indicator (figure 3a("Target Printer") and column 5, lines 18-23 of Livingston), and a defined number of sheets for each output set of a print job (column 3, lines 51-55 of Livingston) to achieve a desired appearance characteristic of sheets for the output set (column 5, lines 15-23 of Livingston).

Livingston does not disclose expressly that said central processing unit specifies a balanced media exit pattern that distributes media for the print job in a generally equal manner between different output destinations.

Lobiondo discloses specifying a balanced media exit pattern (column 4, lines 16-19 of Lobiondo) that distributes media for the print job in a generally equal manner between different output destinations (column 4, lines 19-25 and lines 30-34 of Lobiondo).

Art Unit: 2625

Livingston and Lobiondo are combinable because they are from the same field of endeavor, namely the control, processing and specification of print jobs. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to generally evenly distribute the print job, and thus provide a balanced media exit patten for the print job, as taught by Lobiondo. The motivation for doing so would have been that each printer has different characteristics and capabilities than other printers (column 3, lines 64-68 of Lobiondo), and thus can process different portions of the overall print job better. This is particularly advantageous when a user alters different pages in different ways (column 5, lines 1-7 and lines 18-26 of Livingston). One of ordinary skill in the art at the time of the invention would clearly see the advantage in a distributed approach to printing, as taught by Lobiondo, when there is a variety of possible printing conditions based on the user input in the system taught by Livingston. Therefore, it would have been obvious to combine Lobiondo with Livingston to obtain the invention as specified in claims 1 and 15.

Further regarding claim 15: The printing system of claim 1 performs the method of claim 15.

Regarding claims 2-3 and 17-18: Livingston discloses that said command comprises an output-destination-control command (column 5, lines 22-26 of Livingston) including a media tag as the media identifier (figure 3a(64("Paper Source")) of Livingston), an exit name as the destination identifier (figure 3a(64("Output Bin")) of Livingston) (column 5, lines 19-23 of Livingston), and a defined number of pages associated with the media tag and the exit name (column 5, lines 11-15 and lines 20-23 of Livingston). The identification of the paper source corresponds

Art Unit: 2625

to the media tag which identifies the input media. The output bin identifier corresponds to the exit name which identifies the destination. Selecting the paper source and output bin (column 5, lines 20-23 of Livingston) for individual pages (column 20-23 of Livingston) defines the number of pages associated with said media tag and said exit name.

Regarding claims 4 and 19: Livingston discloses that said command comprises an alternate media command that requests the incorporation of an alternate media into a defined portion of the print job (column 3, lines 51-53 and column 5, lines 19-22 of Livingston). The user can select a different paper source (column 5, lines 19-22 of Livingston), and thus a different media, which is a media that is an alternative to the default media (column 3, lines 51-53 of Livingston).

Regarding claim 6: Livingston discloses that said media identifier includes at least one of a primary (default) media identifier and an alternate media identifier for the print job (column 3, lines 51-53 and column 5, lines 19-22 of Livingston). The user can use a default setting or an alternate setting (column 3, lines 51-53 of Livingston) for the media to be used for the print job (column 5, lines 19-22 of Livingston).

Regarding claims 7 and 21: Livingston discloses that said central processing unit supports association of the media identifier with a corresponding input source that stores a particular medium (column 5, lines 19-22 of Livingston). Selection of a particular source or size of paper (column 5, lines 19-22 of Livingston) clearly associates the media identifier, namely the software signal element selected in the user interface (figure 3a(64("Paper Source")) of Livingston),

Art Unit: 2625

with the actual paper source and/or size that is stored and used for printing.

Regarding claims 8 and 22: Livingston discloses that said command has a primary command format that includes the media identifier (figure 3a(64("Paper Source")) of Livingston), a request identifier (figure 3a(58) of Livingston), and a page identifier (figure 3a(84) of Livingston), where the media identifier, the request identifier, and the page identifier are associated with each other for application to at least a portion of the print job (column 5, lines 13-15 and lines 20-26 of Livingston). When the media identifier (figure 3a(64("Paper Source")) of Livingston) is selected (column 5, lines 20-23 of Livingston) in the user interface (figure 3a of Livingston), a pull-down menu (figure 3a(84) of Livingston) is used to identify the page whose attributes are to be modified (column 5, lines 13-15 of Livingston). When the page is selected, the request identifier (figure 3a(58) of Livingston) is used to select what changes to make (column 5, lines 22-26 of Livingston).

Regarding claims 9 and 23: Livingston discloses that the command has a secondary command format that includes the media identifier (figure 3a(64("Paper Source")) of Livingston), the output destination indicator (figure 3a(64("Output Bin")) of Livingston), a request indicator (figure 3a(58) of Livingston), and a page quantity (figure 3a(84) of Livingston), where the media identifier, the output destination indicator, the request indicator, and the page quantity are associated with each other for application to at least a portion of the print job (column 5, lines 13-17 and lines 20-26 of Livingston). When the output destination (figure 3a(64("Output Bin")) is selected, in the user interface (figure 3a of Livingston), a pull-down menu

Art Unit: 2625

(figure 3a(84) of Livingston) is used to identify the page or pages whose attributes are to be modified (column 5, lines 13-17 of Livingston). When the pages have been selected, the request identifier (figure 3a(58) of Livingston) is used to select what changes to make to said pages (column 5, lines 22-26 of Livingston). The page quantity is simply the number of specifically selected pages chosen in said pull-down menu. The media identifier is a part of said secondary command format since there must inherently be a print media source in order to print based on said selected attributes.

Regarding claims 10 and 24: Livingston discloses that said command comprises a print job request to route some fraction of an ordered media for the print job from the at least one input source to a selected output destination among the two or more output destinations (column 5, lines 13-15 and lines 17-23 of Livingston). Specific pages of the overall print job are selected (column 5, lines 13-15 of Livingston) to be routed from the at least one input source to an output destination that is specifically selected from among the two or more output destinations (column 5, lines 17-23 of Livingston).

Regarding claims 12 and 26: Livingston discloses that said command comprises selecting specific pages of an overall print job (column 5, lines 13-15 of Livingston), to be routed from the at least one input source to a specifically selected output destination (column 5, lines 17-23 of Livingston), wherein said selected output destination is different from the default output destination (column 3, lines 51-53 of Livingston). The media of said print job is arranged in a specific order, as evidenced by the selection of particular page numbers in the overall print job (figure 3a(84) and column 5, lines 59-61 of Livingston).

Therefore, a first group of defined members of an ordered media is routed to the default output destination and a second group of ordered media, namely the specifically selected pages, is routed to another output destination, namely the specifically selected non-default output destination. Since this all occurs within a single overall print job, said first group and said second group belong to the same output set.

Regarding claims 13 and 27: Livingston discloses that said command comprises an output-destination-control command (column 5, lines 18-23 of Livingston) that selectively incorporates a new printed media command into the output-destination-control command (column 5, lines 13-23 of Livingston) if respective values of symbols for corresponding pages of the output set meet defined criteria (column 6, lines 60-62 of Livingston). A new print media and its output destination (column 5, lines 18-23 of Livingston) can be selected for particular pages by using a pull-down menu and page selector (column 5, lines 13-17 of Livingston). The selection of the new media and the output destination that corresponds with a particular page changes the values of the symbols denoting which media and output destination is desired for said particular pages (column 6, lines 60-62 of Livingston). The defined criteria for change is the selection of desired changes for particular pages (column 6, lines 60-62 of Livingston).

Regarding claim 16: Livingston discloses feeding the media to different output destinations (output bins) (column 5, lines 19-26 of Livingston). Therefore, it is inherent that some form of media feed instructions are created based on the pattern of media feeds. Otherwise, there is nothing to direct said media to different output destinations.

Art Unit: 2625

5. Claims 5 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,621,590 B1) in view of Lobiondo (US Patent 5,287,194) and Mastie (US Patent 6,583,890 B1).

Regarding claims 5 and 20: Livingston in view of Lobiondo does not disclose expressly that said command comprises a non-printed media command that represents a request for incorporation of a blank or non-printed media into a designated portion of the print job.

Mastie discloses a non-printed media command that represents a request for incorporation of a blank or non-printed media into a designated portion of the print job (column 6, lines 58-60 and column 6, line 67 to column 7, line 2 of Mastie).

Livingston in view of Lobiondo is combinable with Mastie because they are from the same field of endeavor, namely the processing and formatting of print data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a blank or non-printed media command, as taught by Mastie, into the overall command taught by Livingston. Inserting a sheet either before or after a particular page in the print job would simply be another feature that can be selected in the user interface shown in figure 3(64) of Livingston. The motivation for doing so would have been to modify a print job so that said print job is consistent with a desired document framework (column 6, lines 58-63 of Mastie). Therefore, it would have been obvious to combine Mastie with Livingston in view of Lobiondo to obtain the invention as specified in claims 5 and 20.

Art Unit: 2625

6. Claims 11 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,621,590 B1) in view of Lobiondo (US Patent 5,287,194) and Farrell (US Patent 5,179,410).

Regarding claims 11 and 25: Livingston in view of Lobiondo does not disclose expressly that said command comprises a request to purge an un-needed sheet to a specified one of the at least two output destinations of the print job.

Farrell discloses a request to purge an un-needed sheet to a specified destination (column 7, lines 7-12 of Farrell).

Livingston in view of Lobiondo is combinable with Farrell because they are from the same field of endeavor, namely the processing and formatting of print data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include said request to purge taught by Farrell into the structure of said command taught by Livingston. The specified destination would therefore be one of the at least two output destinations taught by Livingston, since said output destinations are the output destinations available in the printing system taught by Livingston. The motivation for doing so would have been to remove a page from the print job when said page has inadequate image quality (column 7, lines 7-12 of Farrell). Therefore, it would have been obvious to combine Farrell with Livingston in view of Lobiondo to obtain the invention as specified in claims 11 and 25.

7. Claims 14, 28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,621,590 B1) in view of Lobiondo (US Patent 5,287,194) and Custy (US Patent 5,774,879).

Art Unit: 2625

Regarding claims 14 and 28: Livingston discloses that said command comprises an output-destination-control command (column 5, lines 18-23 of Livingston) that selectively incorporates an alternate media command (column 3, lines 51-55 of Livingston) into the output-destination-control command (column 5, lines 13-23 of Livingston) if the respective values of symbols for corresponding pages of the output set meet the defined criteria (column 6, lines 60-62 of Livingston). An alternate print media (column 3, lines 51-55 of Livingston) and its output destination (column 5, lines 18-23 of Livingston) can be selected for particular pages by using a pull-down menu and page selector (column 5, lines 13-17 of Livingston). The selection of an alternate media and the output destination that corresponds with a particular page changes the values of the symbols denoting which alternate media and output destination is desired for said particular pages (column 6, lines 60-62 of Livingston). The defined criteria for change is the selection of desired changes for particular pages (column 6, lines 60-62 of Livingston).

Livingston in view of Lobiondo does not disclose expressly that the respective values of symbols for corresponding pages of the output set meet the defined criteria, as taught by Livingston, as a jam identifier.

Custy discloses that the respective values of symbols for corresponding pages of the output set meet the defined criteria as a jam identifier (column 6, lines 22-24 and lines 41-49 of Custy).

Livingston in view of Lobiondo is combinable with Custy because they are from the same field of endeavor, namely the control and processing of print jobs. At the time of the invention, it would have been obvious to a person of ordinary

Art Unit: 2625

skill in the art to have a jam identifier as a specific defined criteria for the printed pages output, as taught by Custy. The motivation for doing so would have been to be able to verify exactly what has and has not been printed, which is a generally desirable result and is also of particular interest in the area of accounting and finance (column 6, lines 35-40 and lines 45-49 of Custy). Therefore, it would have been obvious to combine Custy with Livingston in view of Lobiondo to obtain the invention as specified in claims 14 and 28.

Regarding claim 30: Livingston discloses a printing system (figure 1 of Livingston) comprising a user interface (figure 1 (28) of Livingston) to support a user's selection (column 3, lines 20-23 of Livingston) of a specific sheet output destination (output bin) among at least two output destinations (column 5, lines 17-23 of Livingston) for a specific portion of a multiple sheet print job prior to printing (column 3, lines 51-55 and column 5, lines 13-23 of Livingston). Option selection is performed for each page of the print job (column 3, lines 51-55 and column 5, lines 13-17 of Livingston), including the option of which target printer and output bin is to be selected for each page (column 5, lines 17-23 of Livingston).

Livingston does not disclose expressly that the printing system routes a page to a requested output destination or a primary output destination based upon a comparison of a feed count value to at least one target value including a jam indicator, wherein the feed count value represents a running count of a number of pages of the output set that have been fed through the printing system from the at least one input source to at least one of the output destinations.

Art Unit: 2625

Lobiondo discloses routing a page to a requested output destination or a primary output destination (column 3, lines 41-50 of Lobiondo) based upon a comparison of a feed count value to at least one target value, wherein the feed count value represents a running count of a number of pages of the output set that have been fed through the printing system from the at least one input source to at least one of the output destinations (column 3, lines 30-34 of Lobiondo). Notifying the user of how the print job is distributed (column 3, lines 30-34 of Lobiondo) inherently includes a feed count value, which represents a running count of a number of pages of the output set that have been fed through the printing system from the at least one input source to at least one of the output destinations, compared to at least one target value, since distributing a print job to a plurality of printers requires knowledge of which pages and how many pages are to be printed at each output printer (column 4, lines 57-66 of Lobiondo).

Livingston and Lobiondo are combinable because they are from the same field of endeavor, namely the control, processing and specification of print jobs. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to distribute the print job amongst a plurality of printers based on the number of pages to be fed through, as taught by Lobiondo. The motivation for doing so would have been to better distribute the print job, thus finishing the print job as fast as possible (column 4, lines 57-66 of Lobiondo). Therefore, it would have been obvious to combine Lobiondo with Livingston.

Livingston in view of Lobiondo does not disclose expressly that said target value includes a jam indicator.

Curry discloses including a jam indicator to control a print job (column 6, lines 22-24 and lines 41-49 of Custy).

Livingston in view of Lobiondo is combinable with Custy because they are from the same field of endeavor, namely the control and processing of print jobs. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a jam identifier further control a print job, as taught by Custy. The motivation for doing so would have been to be able to verify exactly what has and has not been printed, which is a generally desirable result and is also of particular interest in the area of accounting and finance (column 6, lines 35-40 and lines 45-49 of Custy). Therefore, it would have been obvious to combine Custy with Livingston in view of Lobiondo to obtain the invention as specified in claim 30.

8. Claims 29 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,621,590 B1) in view of Custy (US Patent 5,774,879).

Regarding claim 29: Livingston discloses a printing system (figure 1 of Livingston) comprising a user interface (figure 1 (28) of Livingston) to support a user's selection (column 3, lines 20-23 of Livingston) of a specific sheet output destination (output bin) among at least two output destinations (column 5, lines 17-23 of Livingston) for a portion of sheets of a multiple sheet print job prior to printing (column 3, lines 51-55 and column 5, lines 13-23 of Livingston). Option selection is performed for each page of the print job (column 3, lines 51-55 and column 5, lines 13-17 of Livingston), including the

Art Unit: 2625

option of which target printer and output bin is to be selected for each page (column 5, lines 17-23 of Livingston).

Livingston further discloses a central processing unit (figure 1(14) of Livingston) configured to determine a pattern of media feeds (figure 3a("Target Printer", "Output Bin") and column 5, lines 17-23 of Livingston) for each output set of a print job (column 3, lines 51-55 of Livingston) to achieve a desired appearance characteristic of sheets for the output set (column 5, lines 15-23 of Livingston), wherein the pattern comprises a page identifier (figure 3A of Livingston) including a printing indicator (column 5, lines 26-31 and lines 37-39 of Livingston) and a particular output destination (output bin) (column 5, lines 17-23 of Livingston), wherein the printing indicator indicates whether or not the printing system is supposed to print on a page of the output set associated with the corresponding page identifier (column 5, lines 13-23 of Livingston).

Livingston does not disclose expressly that said page identifier also includes a jam indicator.

Custy discloses a page identifier which includes a jam indicator (column 6, lines 22-24 and lines 41-49 of Custy).

Livingston and Custy are combinable because they are from the same field of endeavor, namely the control and processing of print jobs. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a jam identifier for the printed pages output, as taught by Custy. The motivation for doing so would have been to be able to verify exactly what has and has not been printed, which is a generally desirable result and is also of particular interest in the area of accounting and finance (column 6, lines 35-40 and lines 45-49

of Custy). Therefore, it would have been obvious to combine Custy with Livingston to obtain the invention as specified in claim 29.

Regarding claim 31: Livingston discloses supporting a user's selection (column 3, lines 20-23 of Livingston) of a specific output destination (output bin), among two or more output destinations (column 5, lines 17-23 of Livingston), for a portion of sheets of a multiple sheet print job prior to printing (column 3, lines 51-55 and column 5, lines 13-23 of Livingston). Option selection is performed for each page of the print job (column 3, lines 51-55 and column 5, lines 13-17 of Livingston), including the option of which target printer and output bin is to be selected for each page (column 5, lines 17-23 of Livingston).

Livingston further discloses determining a pattern of media feeds (figure 3a("Target Printer", "Output Bin") and column 5, lines 17-23 of Livingston) for each output set of the print job (column 3, lines 51-55 of Livingston) to achieve a desired appearance characteristic for the output set or a desired assembly of the sheets of the output set (column 5, lines 15-23 of Livingston), wherein the determining step further comprises associating a page identifier (figure 3A of Livingston) including a printing indicator (column 5, lines 26-31 and lines 37-39 of Livingston) and a particular output destination (output bin) to form the pattern of media feeds (column 5, lines 17-23 of Livingston), wherein the printing indicator indicates whether or not the printing system is supposed to print on a page of the output set associated with the corresponding page identifier (column 5, lines 13-23 of Livingston).

Livingston does not disclose expressly that said page identifier also includes a jam indicator.

Custy discloses a page identifier which includes a jam indicator (column 6, lines 22-24 and lines 41-49 of Custy).

Livingston and Custy are combinable because they are from the same field of endeavor, namely the control and processing of print jobs. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a jam identifier for the printed pages output, as taught by Custy. The motivation for doing so would have been to be able to verify exactly what has and has not been printed, which is a generally desirable result and is also of particular interest in the area of accounting and finance (column 6, lines 35-40 and lines 45-49 of Custy). Therefore, it would have been obvious to combine Custy with Livingston to obtain the invention as specified in claim 31.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Housel et al, US Patent 6,971,809 B1, Patented 06 December 2005, Filed 23 October 2000.
- b. Isernia et al, US Patent 6,559,961 B1, Patented 06 May 2003, Filed 27 September 1999.
- c. Kohtani et al, US Patent 6,384,935 B1, Patented 07 May 2002, Filed 27 February 1998.
- d. Akihiko Noda, US Patent 6,293,714 B2, Patented 25 September 2001, Filed 25 August 1998.
- e. Mary K. MacKay, US Patent 5,718,520, Patented 17 February 1998, Filed 22 May 1995.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Thompson whose telephone number is 571-272-7441. The examiner can normally be reached on 8:30AM-5:00PM.

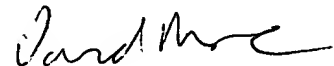
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on 571-272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



15 February 2006

James A. Thompson
Examiner
Division 2625



DAVID MOORE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600